

WHAT IS CLAIMED IS:

1. A connector comprising:
a plurality of contact pins;
5 an insulator supporting the contact pins in a state arranged in a first direction;
each of the contact pins comprising a supported portion which extends in a second direction perpendicular to the first direction;
the insulator comprising a plurality of accommodation portions
10 which accommodate the respective contact pins, each of the accommodation portions being provided with a supporting portion which supports the supported portion of the corresponding contact pin, the supporting portion including a supporting surface which receives the supported portion of the corresponding contact pin in a third direction
15 perpendicular to the first and the second directions; and a supplementary insulator fixedly held by the insulator and pushing at least one part of the supported portion of each of the contact pins to the supporting surface to hold the at least one part of the supported portion between the supporting surface and the supplementary insulator.
- 20 2. The connector according to claim 1, wherein: each of the contact pins further comprises a terminal end, a connecting portion and a contact end; the supported portion has two ends; the terminal end is connected to one end of the supported portion; and the connecting portion extends from the other end of the supported portion in a direction oblique
25 to the second and the third directions and connects the other end of the supported portion and the contact end.
3. The connector according to claim 1, wherein each of the supporting portions of the accommodation portions has sidewalls in the

first direction, and each of the supported portions of the contact pins is formed with a press-fit portion which is engaged in the sidewall of the supporting portion to fix the supported portion of the contact pin within the supporting portion.

5 4. The connector according to claim 3, wherein the press-fit portion is positioned nearer to the terminal end than to the contact end.

 5. The connector according to claim 1, wherein: the accommodation portions are arranged in the first direction and each extends in the second direction; the insulator is further formed with a hole
10 which extends in the first direction and communicates with the accommodation portions in the third direction; the supplementary insulator extends in the first direction; and the supplementary insulator is partially fitted within the hole, while being in contact with the supported portions of the contact pins.

15 6. The connector according to claim 5, wherein the hole communicates an outside of the insulator with the accommodation portions in the third direction.

 7. The connector according to claim 6, wherein: the supplementary insulator is comprised of a base portion and a plurality of
20 pressing portions; the pressing portions are arranged in the first direction; and each of the pressing portions extends from the base portion in the third direction and is fitted within the corresponding accommodation portion to press at least one part of the supported portion of the corresponding contact pin against the supporting surface of the supporting portion of the
25 corresponding accommodation portion.

 8. The connector according to claim 5, wherein the supplementary insulator is provided with protrusions which are engaged in an inner wall of the hole of the insulator so that the supplementary insulator is partially

press-fitted into the insulator.

9. The connector according to claim 1, wherein each of the accommodation portions has a T-like shaped cross-section in a plane perpendicular to the second direction, and the supporting portion is wider
5 than the other portion of the accommodation portion in the first direction within the cross-section.

10. The connector according to claim 1, further comprising a shell which surrounds the insulator, the contact pins and the supplementary insulator.

10 11. The connector according to claim 10, wherein, the shell is formed with mounting posts for fixing the connector on an object.

12. A fabrication method of the connector according to claim 1, comprising the steps of:

15 tentatively inserting the contact pins into the respective accommodation portions along the second direction;

fitting the supplementary insulator to the insulator to press the supported portions against the supporting surfaces of the respective accommodation portions; and

20 further pressing the contact pins into the respective accommodation portions along the second direction so that the contact pins are completely inserted into the respective accommodation portions .